

Fall 10-29-1964

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The Students of Worcester Polytechnic Institute

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Pride in our Past  
Faith in our Future  
1865-1965

WORCESTER POLYTECHNIC INSTITUTE

Vol. LV

Worcester, Massachusetts, Thursday, Oct. 29, 1964

No. 7

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# The Tech News

## BIGGEST UPSET IN THE EAST



A PART OF THE HOOTING CROWD

### Hootenanny Rocks Alden Auditorium

Approximately 600 Techmen and dates welcomed ten groups of folksingers to the annual Junior Class hootenanny last Saturday night. With cash prizes as an incentive, the show attracted considerable talent in the folk music field. Competition was therefore keen, with the audience benefitting immensely.

The first portion of the show let all competing groups sing three songs to gain entry to the finals. The many facets of folksinging were apparent as Jack Rahaim introduced the Cornsqueezers, a bluegrass group; Bob Berquist and the Rag Stompers, a white blues group from Worcester Junior; Steve Josephs, a Seeger type minstrel; and the Freshlads, a refined commercial group. Also appearing were several groups of Techmen.

During the intermission, mattresses were pushed to the wall as the Take Five Quintet played popular dance music. As the audience monkeyed, the judges deliberated as to who would come back for a second try. Professor McKay, Mr. Trask, and Nils Hagberg finally chose the Longmeadow Singers, the Freshlads, and Steve Josephs for further consideration.

The weary dancers happily dragged their prized mattresses back to the center of Alden, and made themselves comfortable as the second act started. With each group seeking victory, the audience was wooed with fine folk music of all types. Tropical songs, commercial adaptations, and just plain folk music flooded the auditorium in an effort to impress the judges.

While waiting for the decision, the Ugliest Man on Campus was announced. By virtue of having the greatest monetary support of all candidates, Phil Hopkinson of TKE was chosen the U. M. O. C. For his efforts, Phil was presented with a plastic model of Frankenstein, and had his name immortalized in brass on a plaque to be hung in the school. The supporters of Mike Ba-bin, however, were not to be denied. Their candidate was runner-up in the balloting.

The climax of the evening was the announcement of the Hootenanny prize winners. The Freshlads emerged victorious, winning \$30 for their efforts. Steve Josephs netted \$15 for his performance.

Bill Behn and Steve Hebert were chairmen of the program.

### ROTC Scholarship Program Launched

WASHINGTON (CPS)—A massive federal scholarship program for Army and Air Force ROTC students will be launched next fall as a result of the "ROTC Vitalization Act of 1964."

Navy ROTC students already receive scholarship aid under the Holloway Program.

Up to fifty dollars a month and payment of tuition, book costs and laboratory fees will go to 4000 Army and 4000 Air Force ROTC

cadets. After four years, the number of Army and Air Force scholarships will rise to 5,500.

The Navy's Holloway Program, which currently supports about 5,300 students, will be replaced next fall with a program similar to the new Army and Air Force programs. The number of Navy scholarships will be increased immediately to 5,500.

Scholarships will be available (Continued on Page 3)

### Tech Surprises Bears Gurske, Korzick Score

They finally did it! The Worcester Tech football team won their first game of the year; shutting out a favored Coast Guard team 13-0 before a home crowd at Alumni Field. This victory broke a six game losing streak which began last year

when Norwich downed Tech in its last game of the season.

Desire, spirit, and teamwork spelled the difference between victory and defeat. Both the offensive and defensive units came through with key plays which either stopped a Coast Guard

drive or prolonged one of Tech's efforts.

Neither team could break into the scoring column during the first quarter and most of the second. To this point in the game Tech stopped three Coast Guard drives on the 14, 5, and 25 yard lines before the Engineers could get their offensive unit rolling. Late in the second quarter Tech marched 78 yards for their initial tally. The key play in the drive was Rit Gurske's fourth down plunge deep in Tech's territory which gave the Engineers a needed first down. A few plays later this freshman speedster teamed up with John Korzick for a 55-yard TD pass play. Gurske hauled it in on the 20 and raced into the end zone. The extra point attempt by Frank Magiera was wide and Tech led 6-0 with a little more than a minute left in the half.

An inspired Coast Guard team promptly took the ball down to Tech's 10 with three successful pass plays. Here the Engineers' defense stiffened, forcing the Bears to resort to a field goal attempt. Tech denied them a score as Greg Berry charged through the line and deflected the kick as the half ended.

Realizing that Coast Guard was not a team that would let a six point deficit set them down, the Engineers returned to start the second half determined to win.

Late in the third quarter Tech threatened to score when Pat Moran intercepted a Bear pass deep in Coast Guard territory. Two plays later a Mike Oliver pass was intercepted ending this threat. Not to be denied, the Tech defense gave the ball back to the offense as they stopped a Bear attempt to go for a first down on a fourth and short yardage situation.

From Coast Guard's 42 a draw play by Guisti, a pass to Moran, a penalty, and a run by Denny Gallant put the ball on the Bear two. Guisti powered his way to the two foot line and then Korzick dove over for Tech's second and final tally. Magiera's kick split the up-rights and Tech

(Continued on Page 4)

### Dr. Ley Speaks on Space Conquest

Dr. Willy Ley, outstanding authority on the development of rocketry and space travel, spoke before the student body at the Thursday Assembly on October 22. Dr. Ley's address covered the development of the conquest of space from the first conception of artificial satellites by Sir Isaac Newton in 1608, to the present day, manned space flights, including future advancements on types of rockets and methods of propulsion.



DR. LEY

Dr. Ley pointed to the experiments of Dr. Robert Goddard in Auburn, as one of the milestones in the development of rocketry. Dr. Goddard's experiments were the first in which thought had been given to design. Work was also being done at this time by German, Russian, and French groups on the building and launching of liquid fuel rockets. The most productive of these groups was the German Society for Space Travel of which Dr. Ley was the Vice-president. In reminiscing about these years, Dr. Ley mentioned, "We did everything for the first time. Anybody could be right; anybody could be wrong . . . In retrospect, we did things which had never been done before."

With the advent of World War II, only the Germans continued their research, the other groups having been forced to abandon their projects because of more

pressing war problems. The German Army, however, supported the Society's experiments in search of a high altitude rocket, in hopes that it could be used to deliver a payload over a large distance. They were successful with the production of the V-2 which could produce such results to a range of 200 miles. It was the V-2 which served as the starting point for the United States and Russia in their missile projects following the war.

Both the American and Russian space programs developed along the same lines. First there was the need for a long range missile which could carry a payload a distance of several thousand miles—the intercontinental ballistic missiles. This was necessary to make the investment in rocketry of economic worth. Once these had been successfully developed and tested, it was only natural that these rockets should be used for the launching of artificial satellites.

Dr. Ley then proceeded to compare the programs of the United States and Russia, pointing out various successes and their scientific worth. In so doing, Dr. Ley stated, "The pattern has been that the Russians do it first, then the Americans do it better. I am not too unhappy (Continued on Page 3)



TECH DOMINATES ACTION



# Editorial

## Is Anyone Interested In An F.M. Radio Station?

"What, an F.M. radio station at W.P.I.? Yes, I vaguely remember now. Something was mentioned about it last year, but I don't remember exactly what happened to it."

This is apparently all that remains of a proposal made for a Worcester Tech F.M. station last year. (See **Tech News** of May 9, 1963.) Everyone seems to have put the subject in the back of their minds, if they haven't forgotten about it completely. Why this indifference? Why has the idea died without further inspection of the proposal?

One of the reasons given is that some of the faculty believe a student station, as an activity, would bite too deeply into students' time. Take into account the time spent by Tech athletes or by students in other activities on the campus. Would the time spent in running a radio station by a large enough group of interested students be any greater? We feel that this would not be the case.

A second possible reason given for the evasion of the proposal is that the station would be too expensive. Professor Howe of the Physics Department has done a considerable amount of research on the subject. He has arrived at a figure of \$5000 as the initial cost. There would also be, of course, maintenance and operating expenses over and above this. Professor Howe further stated that he thinks "Tech is now big enough to need and profit by another medium of communication." In this same vein, Mr. Lloyd, Tech's Business Manager, feels that "if the subject is investigated thoroughly, if the project is determined to be a certain success, and is sensible from the academic and extra-curricular point of view, it would be a worthwhile investment, providing funds are available."

The third objection is that student interest might soon falter and die. The **Masque** was pointed out by another member of the Administration as an example of lost interest. The original founders, it seems, were very energetic, but since they left, the activity has never been quite as strong. We feel that this is more an exception to the rule than an example of it. Furthermore, we find it quite difficult to visualize an activity like a radio station, which is so dynamic, dying from lack of support.

It is entirely possible that any one or all three of these objections are valid. Yet no one seems to have thought seriously enough about the proposal. No one has investigated the subject deeply enough, it seems, to be able to take a stand, for or against.

An F.M. radio station would be a forum for discussion, an outlet of student and faculty opinion, a source of culture, a means of exciting sports coverage, and a good public relations item for Worcester Tech. On the surface, the idea seems to be a good one. We would like to know if student interest does exist. We would like to hear opinions voiced, either pro or con, for this is the only way a valid decision can be reached. Otherwise we may well be pushing aside a potentially valuable asset to our college.

G. G. C.

## TECH NEWS

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## TECH SENATE

President Mitschang opened the year's fifth meeting at 7:20 P.M. Secretary Braun read the minutes of the last Tech Senate meeting. Representative Low was absent.

Bob Klauber gave a report on the assembly committee's activities. He pointed out the lack of support at the 1:00 o'clock meeting with last week's speaker, Willy Ley.

Klauber and John Burns reported for the I.D. card committee. Burns commented on his interviews with local merchants concerning discounts and the like. John Kelley commented on this subject.

A member of the freshman course evaluation committee, Phil Baker, was introduced. He read statistics which he and Larry Penoncello compiled from thirty-nine colleges comparable to Worcester Tech. He noted that MIT and Cal Tech did not offer a drawing course. Other differences were mentioned, including generally a lighter demand for credit hours at a number of other colleges. A further study will follow including future trends in curricula.

Pat Moran mentioned the Council of Presidents hopes to set up displays for Parents Day, November 7.

## TKE TO HOST N.E. CHAPTERS

Grand Prytanis (National President) J. Russell Salisbury, Province Supervisor John Siegler, and approximately 100 Tekes from all over New England and from R. P. I. will converge upon Worcester this weekend for the Province I Leadership Conference of Tau Kappa Epsilon.

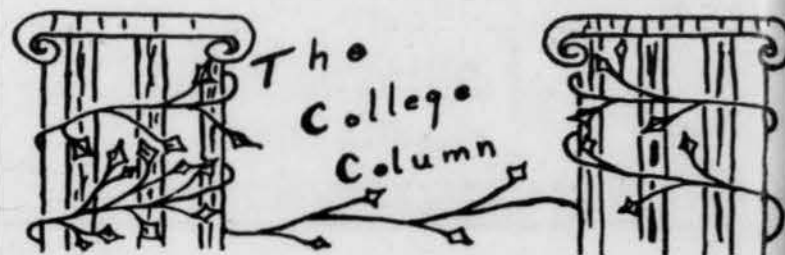
Saturday morning the Tekes will register in Kinnicut Hall and then form into groups to discuss common problems and their solutions by the chapters represented. At noon the fraters will return to the house for a sample of Joe Barnhill's cooking. After lunch they will reform into new groups to discuss different topics, followed by a general gathering for a summary of the day's discussions.

On Saturday evening, a banquet will be held at Nick's Colonial Grill, followed by a party at the house. Sunday morning the Tekes will return to their home chapters.

## VISITOR'S GUIDE AVAILABLE

For the first time, a visitor's guide to Worcester Tech is available. The guide includes two maps: one of the campus and the other of the Worcester area showing routes to the campus. To supplement the maps is a key to the buildings on campus and a list of points of interest numbered on the Worcester map. In addition there is a list of addresses and telephone numbers of the fraternities and of the dormitory pay phones. Also included is some general information about the Institute and various administrative departments. Anyone desiring a copy of the visitor's guide can obtain it from the Public Relations Office, Room 107, Boynton Hall.

The centennial year catalog will be available this week. When it is ready for distribution, notices will be posted on the bulletin boards around campus. Students will be able to obtain a copy at the library in Alden Memorial.



This past week Trinity College banned all drinking of alcoholic beverages by undergraduates on the campus, in fraternities, and at all that college's social functions. Previous to the ban, liquor had been allowed on weekends in fraternities, and the drinking of beer and wine had been permitted during the week. At major social events students were permitted to bring their own liquor, and set-ups were provided. As to the question, "Why the drastic change in social policy?" President Albert Jacobs indicated that Trinity College is making its rules concerning drinking consistent with those of the state of Connecticut. He also added, "I am confident that Trinity students will greet this formal announcement of College policy on this important subject

with genuine understanding and with general approval."

The existence of fraternities at Williams College appeared to be somewhat of a question mark as of last week. Five out of the fifteen houses have decided definitely not to rush this year, and four houses are undecided as to what their immediate plans will be. The remaining six fraternities have begun rushing or shall begin to do so in the near future.

On the lighter side, while the "Tute" was holding its own spirited "Ugly Man Contest", a Springfield College freshman football player was nominated along with eight young misses for the school's Homecoming Queen Title. For some latent reason the freshman lost by a small margin; we probably may assume that he just didn't measure up to the qualifications.

## Couth Column

By ANDY MORAN

In my last column, I asked you to keep an open mind if I suggested that it might be a good idea to see the Worcester Art Museum's current exhibit, "The Private World of John Singer Sargent". As you may have guessed, that time was not far off, and I now put forth that very suggestion.

J. S. Sargent was born in Italy of American parents in 1856. During his lifetime, he enjoyed popularity in France, England, and the United States. He gained most of his fame, and nearly all of his fortune, through his portrait painting, and for many years was the favorite of Society. Because of the commercial demands placed upon his art, and his need for the money which it brought him, he was forced to forsake the fields of art which he most enjoyed. In spite of this, he managed to become versatile in many forms of art including oils, water-colors, and sculpture, and developed a gentle and pleasing form of expression. The exhibit, which is now at the Museum, is a collection of the art which Sargent loved. It is the art which he practiced and played with. It is the art which was a part of his private world.

I strongly urge you to see this exhibit. It is not "above" anybody—it is very easy to enjoy. A good time to see it is Thursday night the 29th of October at the Museum's College Night, at

8:00 P.M. In addition to the Sargent collection, which will remain in Worcester until Nov. 1, there will be a concert by the Amsterdam University Ensemble of Amsterdam. This group is now on its third American tour, and should provide a good show.

Last Saturday night I had the opportunity to go to the Worcester Music Festival, and enjoyed myself immensely. Sixteen Ehrling and the Detroit Symphony did a good job all evening, notably of Shostakovich's fifth, for which he took five "Curtain Calls", receiving standing ovations on the last three. While this indicates only that Ehrling performed an exciting work in the overly enthusiastic city of Worcester, he did do a fine job. I found that there are plenty of good seats vacant in the \$2.25 range; they are perfectly good, just a little far away from the stage. This does not affect the sound, however. I have of schedule of this weekend's performances posted in Boynton next to the posters for the Charles Playhouse, and if you are looking for something to do next Friday, Saturday, or Sunday, don't miss the only chance that you will have all year to hear great music done well by a full symphony.

More on this and many other fascinating subjects after one more half moon has crossed our celestial horizon.

THERE WILL BE A MEETING FOR ANYONE  
INTERESTED IN WRITING FOR THE

TECH NEWS

WITH GENE DIONNE, 7:00 P.M. TUESDAY,

IN THE

TECH NEWS OFFICE, DANIELS HALL



# Barry Grabs For Fraternity Vote

By STEVEN V. ROBERTS  
Collegiate Press Service

WASHINGTON — About nine million Americans have turned 21 since the 1960 election, and both parties are drooling like hungry wolves as they attempt to win the hearts and minds of those innocent lambs.

The Republicans, for instance, have singled out particular interest groups for special attention. One leaflet prepared by Youth for Goldwater-Miller was sent to every fraternity and sorority president in the country.

In brown block letters, the first page bears the legend, "The Fraternity System Has A Friend In Barry Goldwater."

Next to this portentous message is a picture showing the candidate and his 22-year-old son Mike, as they admire a beer mug whose lettering is inexplicably backwards. Between them, hanging on the wall, is a portrait of a dour blonde girl, about six years old. Since Barry is a Sigma Chi from the University of Arizona (as we are told on the back of the leaflet) one can only assume the little angel on the wall is the "sweetheart" of song and story.

The leaflet then quotes from a letter the Senator evidently once penned to Mike: "A man must select his own associates. In fact, that right is expressed in the First Amendment of the Constitution... A fraternity is a wonderful institution... It is the reiteration of basic philosophy in the rites of all fraternities that I think makes them important," the Senator wrote.

It is perhaps a piddling point, but one can't help but notice that "rights" does not get equal billing with "rites," nor does Barry explain that "basic philosophy" he thinks is so important. Hazing? Discrimination? Communal living?

Inside, the leaflet contains excerpts from an address the Senator

delivered before the National Interfraternity Conference on November 25, 1960.

Making allowances for the endemic extravagances of political oratory, the speech is still a corker. "Now, I maintain," the Senator said, "that fraternities must survive; they are probably the greatest bastion we have for our future, the great bastion we have where we can develop leaders to take care of the protection of the Republic and our way of life..."

All the other "greatest bastions"—free enterprisers, the Strategic Air Command, the churches—might have had a word or two with the Senator over that one, but we have not been able to determine whether Curtis Lemay or Milton Friedman has seen this opus.

The leaflet concludes with the plea, "The Goldwater-Miller Ticket Needs The Help of Greeks Everywhere." A heart-rending appeal, to be sure, but peculiarly ill-timed; if it gets into the wrong hands Barry could lose every Turkish vote in the country."

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Steven V. Roberts is a former member of the editorial staff of the Harvard Crimson. He is presently affiliated with the New York Times.

## ATTENTION SENIORS

All seniors are reminded that their yearbook senior portrait proofs must be returned to Marvin Richmond Photographers, 10 Harvard St., by November 14. Any senior who does not return his proofs by this date cannot expect to have his picture in the yearbook. If anyone has any question concerning his portraits, he is asked to contact the PEDDLER office or David Luber immediately.

## Notice!

WORCESTER POLYTECHNIC INSTITUTE

Worcester, Massachusetts

### STUDENT FINANCIAL AID MEMORANDUM

Application forms for Freshman second semester National Defense Student Loans and Upper Class Emergency Loans are now available at the Admissions Office Reception Room, Boynton Hall 202.

These applications must be filed with the Admissions Office by TUESDAY, DECEMBER 15, 1964.

All applicants for aid should return both their applications and Parents' Confidential Statements IN PERSON to permit brief conferences with a member of the staff of the Dean of Student Affairs Office.

October 20, 1964

JBS:ljm

## ALL TECH STUDENTS and FACULTY INVITED TO ATTEND AN EXCITING and UNUSUAL LECTURE

Sponsored by the Department of Electrical Engineering  
"Civilization and the Universe"

by

SIR BERNARD LOVELL, Visiting Professor

Professor of Radio Astronomy, University of Manchester, England

Director of the Jodrell Bank Experimental Station

A talk based on his Reife Lecture Series on the

British Broadcasting Corporation

8:30 P.M.—ALDEN MEMORIAL—MONDAY, NOV. 2, 1964

## ASCE Has First Meeting

The first meeting of the American Society of Civil Engineers was held on October 5, 1964 with Frank Benham presiding. The chapter officers for the '64-'65 year are:

Frank Benham, President  
Pete Collette, Vice President.  
Steve Hebert, Treasurer.  
Jay Botop, Secretary.

On October 17, 1964, the ASCE spent the day at the New York World's Fair. This was in accordance with ASCE day held at the fair.

A panel discussion is scheduled at the Civil Engineering Department for Monday, November 2, 1964, at 8:00 p.m. The subject matter will be in non-technical areas such as: professional or subprofessional work, development of young people in civil engineering, philosophy of education, and many others.

The panel will consist of:

John H. Wells—Jackson & Moreland

William J. LeMessurier—William LeMessurier Associates

Professor Harry M. Horn—M.I.T.

Harold V. McKittrick, Jr.—Perini Corp.

Professor John M. Biggs of M.I.T. will be the moderator.

## COAST GUARD WANTS SENIORS

WASHINGTON, D. C. — College seniors or graduate students can fulfill their military obligation as officers in the U. S. Coast Guard the active peacetime Service. Qualified applicants will be notified of selection for officer candidate school before they enlist.

The classes convene in September and February at the Coast Guard Reserve Training Center in historic Yorktown, Virginia. The carefully selected college graduates receive 17 weeks of intensive, highly specialized training. Successful applicants are tendered commissions as ensigns and serve on active duty for three years.

Coast Guard officers are paid at the same rate as officers of other branches of the Armed Forces and receive the same benefits. These include 30 days of annual leave as well as free medical and dental care. They also have an opportunity to qualify for flight training. Peacetime duties of the Coast Guard include law enforcement, search and rescue, oceanographic research, ocean station patrols, and the maintenance of many types of aids to navigation.

For further information on the U. S. Coast Guard officer Candidate School, write: Commandant (PTP-2), U. S. Coast Guard Headquarters, 130 "E" Street, N. W., Washington, D. C. 20226.

### ROTC Continued from Page 1

only to students in four-year ROTC programs. Recipients must commit themselves to a minimum of four years of active duty service.

The ROTC bill was originally passed by the House on June 23. The Senate passed a revised version of it on September 28 and the House accepted the Senate changes on Sept. 30.

In addition to the scholarship program, the Act contains provisions for raising the retainer pay of non-scholarship advanced ROTC students from \$27 to at least \$40 and up to \$50 a month, and raising summer training pay from \$78

## PHI SIG CELEBRATES GOLDEN ANNIVERSARY

Fifty years ago a local fraternity on this campus known as Kappa Xi Alpha became Epsilon Deuteron chapter of the National Phi Sigma Kappa. In celebration of this memorable occasion, the active brotherhood and over 300 alumni with their families attended the Anniversary Banquet at the Paxton Inn on Saturday, Oct. 10.

The National President and Executive Director presented the active chapter with an award for 50 years of service. In return, House president, Bill Jobert, acting on behalf of the brotherhood, presented the Founder's Award to Ellery Royal of Worcester, class of 1916, for his participation as one of the original Founders.

Several service awards, and 50 and 25 year awards were presented to outstanding alumni.

Dean Van de Visse was the principal speaker of the evening. While congratulating Phi Sigma Kappa for its pride in the past, he brought out his faith in the future for the entire fraternity system at Tech. He expressed favorable opinions of fraternities and their worth on the Tech campus and further brought out that the ideals and cardinal principles of Phi Sigma Kappa were those of Worcester Tech.

The celebration was completed with the news that Phi Sig's was the winning Homecoming display.

to \$111.15 a month. It also increases summer travel allowances from five to six cents a mile.

Another major feature of the new ROTC Act is authorization of the establishment of two-year ROTC programs which may be run simultaneously with or as a substitute for the current four-year programs.

Students electing the shorter program will have to substitute a six to eight week period of summer training for the first two years of ROTC training.

Scholarships were excluded from the two-year program lest they tempt too many students away from the four-year program and cause its demise at many colleges.

The new Act also repealed a requirement that each ROTC student spend at least three hours a week on ROTC work. The requirement was revoked to permit more flexible course scheduling and to eliminate possible conflicts with the other academic pursuits of ROTC students."

No decrease in the total number of hours devoted to ROTC training was intended, according to the Senate Armed Forces Committee's report on the bill.

Among the other provisions of the Act is an expansion of high school "Junior" ROTC programs. These programs are authorized to expand from their current 254 high schools to a maximum of 1200 schools at the rate of 200 a year starting in January, 1966.

The Act also authorized a \$300 uniform allowance for ROTC graduates who are commissioned as "regular officers." Those commissioned as "reserve officers" already receive such an allowance.

In addition, the Act ended the practice of granting "longevity credit" for reserve service for the period of ROTC instruction. Recipients of this credit could count their ROTC training as years of reserve status, which gave them pay advantages over their contemporaries and over military academy graduates.

Army ROTC programs are conducted at 247 colleges and enroll approximately 175,000 students. Air Force ROTC programs exist at 186 colleges and enroll about 102,000 students. The Navy's program is the smallest; it is at 53 universities and has approximately 11,000 students enrolled.

The 1964 ROTC Vitalization Act represents an attempt to remedy the failure of ROTC programs to attract and particularly to retain adequate numbers of students in the advanced, or third or fourth year ROTC course. Completion of the advanced course plus receipt

of a degree are necessary to receive a commission.

During the past few years, the Army, Navy, and Air Force have all been unable to fill their quotas of ROTC officers, either qualitatively or quantitatively, according to the Senate Armed Forces Committee report.

The Army, for example, estimated its fiscal 1964 officer need at 14,000 graduates, but expects fewer than 12,000. The Air Force, with a requirement of 4,000 officers, expects about 3,300. The Navy requires 3,000 officers but will graduate only 1,733.

The relatively small number of ROTC graduates compared to the number of students enrolled in the ROTC programs is explained primarily by attrition after the first two years of the program — the basic course.

In the Air Force, for example, there are 90,000 students in basic ROTC. Of these, only 11,000 are expected to enter the advanced course and of these 11,000, only 3,300 are expected to last until commission time.

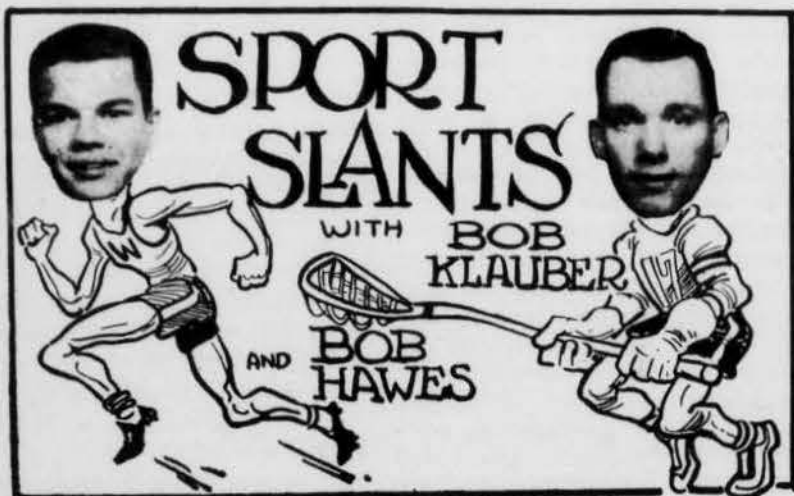
### DR. LEY Continued from Page 1

with this pattern because the glory of having done it first is glory, but it doesn't last very long. Doing it better is what counts." Dr. Ley also said that a similar situation exists as far as manned exploration is concerned. Although the Russians have put three men into orbit compared to our single-manned flights, the rocket which they have used is inferior to the present Atlas rocket being tested in the United States.

He pointed out that there are many other countries which are also developing their own rockets. Among those Dr. Ley specifically mentioned were Canada, Great Britain, France, West Germany, Japan, and Italy. Many of these countries have already launched satellites using American rockets.

In conclusion, Dr. Ley told of future developments, that are at present being explored, for increasing the thrust of the rockets. The limiting point for conventional fuels seems to be in the range of 7.5 million pounds. With the future development of atomic and ion propelled rockets, however, this could be greatly increased. Closing, Dr. Ley prophesized, "The coming fifteen years, I can promise you right now, will be the most interesting in your life, and probably the most interesting of the Twentieth Century."





This past Saturday the Coast Guard Academy hired fourteen busses to carry a contingent of the cadet unit from Groton to Worcester. However, despite the volume of the cadets' compulsory cheering, highly touted Otto Graham and his somewhat less highly regarded Bears went down to a rather convincing defeat. More important though, is the fact that for the first time this season the Worcester Tech Engineers had triumphed.

This proved to be a big victory for the Worcester team that was rated a twelve point underdog in pregame listings. The upset was one of the biggest in the East this year. Deserved praise is definitely called for.

During the course of the game Tech's defense was matchless in both holding the Coast Guard running offense as well as in foiling the aerial attack. In thwarting the air bombardment the Engineers intercepted no less than five passes. This is no mean feat when one considers that the Bear's coach is no less than Otto Graham, who a few years back was one of the greatest quarterbacks in professional football.

Likewise the Tech offense did not stall as it neared the opposing goal. With a good distribution of calls for passes and ground runs the Engineers constantly chipped away at the opponent's defense.

All considered, Worcester Tech played its best game by far this season. To what should this change of spirit be attributed? There were many innovations this past week. The first breaking of precedent was having line coach Pat Biseglia at the game instead of having him scout future opponents. This All American lineman from Notre Dame, it is generally agreed, whipped up tremendous enthusiasm among the Tech linemen. During the course of the game backfield coach, Charlie McNulty, watches the game from the top of the press box calling plays down to the bench. The pass from Korzick to Gurske that was the first points to be scored, was called by McNulty. The training sessions during the week prior to the game were lighter than usual in hope that the team would be fresher than usual.

In any event, something clicked; maybe it will click again.  
R. E. H.

## Hockey Club Meets

On Monday, October 9, the first meeting of the Hockey Club was held and pointed the way to a most interesting and challenging season. With a large turnout of thirty nine candidates, including fourteen returning veterans and sixteen freshmen, Coach Yankee will have a tough time choosing his squad which should be the most formidable in the Club's history.

The gathering was told of the new J.V. squad, to be initiated this year, which will have a playing schedule of its own. This squad will serve as a valuable asset to the Varsity Club in providing playing experience for the fourteen men who, coached by Phil Ryan, will eventually be the backbone of a future Varsity Squad. Phil, himself, will be unable to play himself due to an injury suffered while playing brilliantly last year on the Club.

The Varsity Club, led by Co-Captains Carl Hanson and Bill Baker, will also be comprised of fourteen men and will face a rather long and rugged schedule. This schedule will include six away contests and a three day round-robin tournament at M.I.T. against M.I.T., the University of Connecticut, and the University of Pennsylvania. The Club will be playing nine Worcester College Hockey League games, all of which are played at the Worcester Arena.

After reaching the finals in the league playoff last year with an exciting colorful brand of hockey and having one of the most successful record of any athletic squad in the school, the Hockey Club is looking forward to much support from the student body in their imminent domination of the league once again.  
Jerry Parker

# 'To Coach a Runner'

"Reminiscence of Mr. Sannella"

The Tech News in keeping up with Tech sports presents a man who has been very much concerned with the sports picture at Tech for the last twenty years. Frank Sannella, present coach of cross country and relay, attended Worcester Commerce High School. Graduating in 1920. His coaching career began in his senior year of high school when



FRANK SANELLA  
TODAY . . .

the man who coached both baseball and track asked the young athlete to assume the duties of track coach, a position which he held for one more year after graduation, while attending prep school.

In 1922 Frank, as everyone knows him, entered Bates College

where his track and cross country achievements were phenomenal as he ran every distance from the quarter mile to cross country. He ran on four undefeated relay teams in the B.A.A. Games and on two undefeated teams in the famed Penn. Relays. He placed in the mile run in the I.C.A.A.A. Championships, the biggest intercollegiate track meet of that time.

His success in Track is especially noteworthy if one is familiar with an anecdote relating to his year prior to entering college. It seems that Frank, having been bitten by the coaching bug, managed to become coach of a semi-pro football team. 'Disturbed with the blocking attempts of one lineman, Frank proceeded to demonstrate a cross-body block on the lineman in question. In the process he seriously injured his knee, which, although it lost him a Harvard athletic scholarship, was not enough to stop him from becoming one of the top New England Collegiate runners of his day. Incidentally it was just a few years back that he was introduced to a priest at a reception who claimed to be an acquaintance of his. After several minutes of conversation with the priest, Frank realized that this was the bungling lineman of 1920 who had indirectly injured the coach's knee.

During the second half of his senior year at Bates, the injured knee began to act up, prevent-

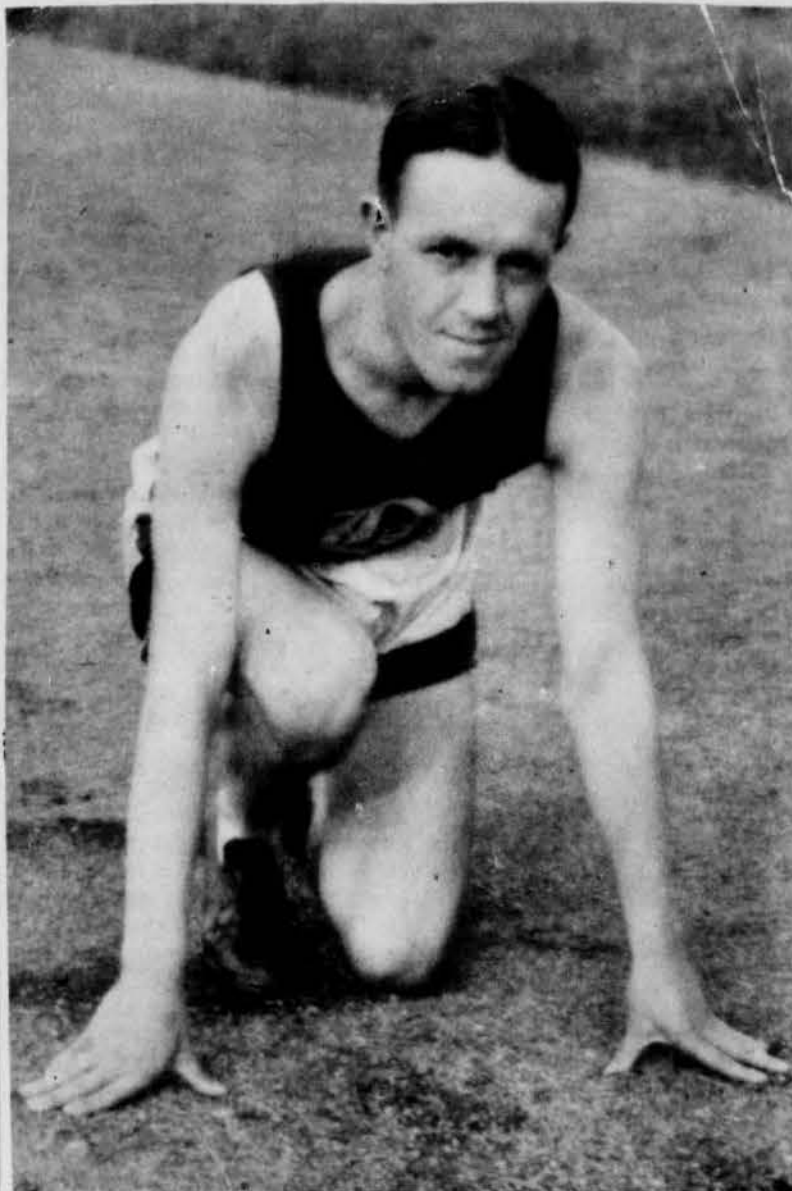
ing his participation in spring track. Unable to compete, he resorted to coaching again. He was hired by Bates to coach the freshman track team, for which he is still waiting to be paid.

After graduation Frank Sannella accepted a position as teacher-coach at Oxford High School, south of Worcester. Wanting to coach football and basketball as a career, he attended a summer coaching school for the next three years at Washington and Lee University, where the coaching program was headed by the renown Knute Rockne and other nationally prominent coaches.

After two years as a teacher at Oxford, he accepted the position of assistant principal. Two years afterwards he eventually became principal, which post he held for the next twenty-four years. In 1954 he accepted the position of Superintendent of the Oxford School System, a job into which Frank claims to have been "railroaded" and from which he hopes to retire this spring. During his early years at Oxford he helped organize the Clark University basketball team as well as several schoolboy track and cross country championships in Worcester County.

In 1945 he joined the coaching staff of Worcester Tech as mentor of track, relay and cross country. When, in 1954, he became Superintendent of Schools in Oxford, he was forced to relinquish much of his coaching time to other duties. Strong persuasion from Worcester Tech officials kept Frank Sannella at Tech as coach of cross country and relay.

As coach of indoor track several years ago, Farnk recalls two undefeated seasons which he  
(Continued on Page 5)



. . . AND YESTERDAY

### UPSET Continued from Page 1

led 13-0 with 45 seconds left in the third quarter.

The fourth quarter proved to be a dual between Tech's pass defense and Coast Guard's air arm. The five interceptions by the defensive secondary, three coming in the last stanza thwarted the Bears' passing game and held them scoreless throughout the game.

These interceptions were the result of the poor passes caused by the pressure placed on the Coast Guard quarterback by Tech's forward wall. Led by junior Bob Sinuc and sophomore Carmen Della Vecchia, the quarterbacks were continually dumped for losses or caused to hurry their passes. Gathering in three errant aerials were Pat Moran, Ron Crump, John Farley, and Gene Baldrate, who intercepted two.

This was a well-earned victory for the team, which has only two games remaining on the schedule: R.P.I., and an always tough Norwich University.

Bob Coates





## TUFTS AND N.U. OUTRUN TECHMEN

### TUFTS

On Tuesday, October 20, the Worcester Tech cross-country team was handed its fourth defeat in six starts by a strong team at Tufts University in Medford. The face-saver of the day was frosh Cary Palulis who continued in his winning-ways not only by taking first place from the pursuing "Jumbos", but also by setting a record for the Tufts' course. Several other prominent Tech runners ran rather poorly, including sophomore Tom Kelley. The team was also hampered by the loss of Jack Lipsey

who is struggling with shin-splints.

Palulis turned in a remarkable time of 21:52 to lead the closest competitor by over 30 seconds. Four Tufts' harriers followed in the remaining top five positions to clinch the meet for the "Jumbos". In sixth position and second for the engineers was freshman Dave Williamson who showed remarkable improvement through the first six meets. Frosh Fran Barton was eighth followed by Captain Len Weckel and frosh Dave Vermilya.

### NORTHEASTERN

The Worcester Tech cross-country team was trounced by a very strong squad from Northeastern University at the Franklin Park course in Jamaica Plain last Saturday. Most of the Tech runners were simply out-classed by the excellent Northeastern team led by junior Dave Dunskey, a good candidate for winning the New England cross-country championships. It was not until the final half mile that a close group of six Northeastern runners and one Techman began to stretch out. Worcester Tech's Palulis found his keenest competition of the season finishing 36 seconds behind Dunskey who ran the 3.6 mile in 17:56. Kneeland of Northeastern could not catch the determined Palulis as he closed in, trailing by two seconds at the finish.

The rest of the straggling pack was led by Tech's Tom Kelley who bounced back from his poor showing at Tufts to capture eighth place. Behind Northeastern's Fra-

ser in ninth, Tech took the next four places with frosh Dave Williamson, tenth, frosh Dave Vermilya, eleventh, Captain Weckel, twelfth, and frosh Jeff Walden, thirteenth. This second group of runners became more distinct as the race progressed along the shortest course that the Techmen have seen to date. Northeastern picked up 1, 3, 4, 5, and 6 points for those respective places. Palulis gave Tech 2 points. The next Techman, Kelley, took 8 points, Williamson, 10, Vermilya, 11, and Weckel, 12. Since Northeastern took seventh and ninth above their top five, these two men did not score points, but merely held those places in displacement.

Although the Tech harriers have a poor 2-5 record thus far, Coach Frank Sannella has expressed his optimism for a decent final record. The squad, sharing this optimism and desire, takes on Coast Guard and Williams at home this Saturday.

## "Kap" in Lead As Volleyball Nears Finish

With one week remaining in I.F. volleyball competition undefeated Phi Kappa Theta is out in front in the standings. They have four games remaining against Theta Chi, Alpha Tau Omega, Sigma Pi, and Alpha Epsilon Pi. Only AEPI appears to have much opposition for the Kap. There is a heated battle for second place between once beaten Alpha Epsilon Pi and twice beaten Sigma Phi Epsilon, Phi Sigma Kappa, and Phi Gamma Delta.

Led by senior spikers Dave LaRue and George Mitschang and set-up man Larry Penoncello, Phi Kap has rolled up seven straight victories. The Kap, who finished in the medium bracket in last year's volleyball standings, is off to a good start in quest of the I.F. sports trophy, which they lost to Sig Ep last year.

AETT lost their first game recently to Phi Gam but has rough contests remaining against Phi Sig, Sig Ep, and Phi Kap. They are paced by spikers Steve Rudnick and Bill Baker. Sig Ep, led by seniors Dave Geiger and Bill Zetterlund, has lost to the Kap and Phi Gam. Last year's champion Phi Sig has lost to Sig Ep and the Kap while the Gam has been beaten by the Kap and Phi Sig.

These teams are followed by Sigma Alpha Epsilon, Alpha Tau Omega, Theta Chi, Lambda Chi Alpha, the Shield, Tau Kappa Epsilon, and Sigma Pi respectively.

**ANYONE INTERESTED  
IN WRITING FOR THE  
"GOAT'S TALE" HUMOR  
MAGAZINE CONTACT  
JOE PASSARO**

decisive point in an upset.

Now in his twentieth year with Tech cross country, Frank looks ahead to the final meet of the season with optimism. Daily, he greets the runners with a yarn or two before the workout. There has always been mutual admiration between Frank and his runners, who admire his congeniality and ability. His words for the Techman he has known is that they are gentleman.

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## ENGINEERS DOWN LOWELL TECH 4-1

This past Saturday, Worcester Tech's soccer team was host to Lowell Tech, a team that was potentially rough, and whom we lost to last year. The Engineers, however, trounced them by the

Quillen, who drove it into the net with a bit of fancy footwork.

Lowell fought back and scored to tie it up when the ball got loose in a big pile-up in front of Tech's goal.

Tech, however, keeping the constant pressure on, forced Lowell into committing penalties. Kirby Holcombe broke the tie as he scored on a direct penalty shot.

In the third quarter, Tech scored again as Kirby Holcombe booted home another penalty shot.

Tech finally wrapped it up when Jim Viele broke through the Lowell defense and scored unmolested to make it 4-1.

Again the play was dominated by the Tech team, led by the strong play of captain Kirby Holcombe. Holcombe guarded Lowell's star player, the man who single-handedly beat Tech last year, and kept him from breaking open the game.

It was a big win for Tech's record which stands at 4-1-2. The next game is at Assumption, our crosstown rivals, and it should be another win for Coach King's men.



### DEFENSE SQUELCHES LOWELL ATTACK

score of 4-1, led by the strong play of captain Kirby Holcombe.

Tech finally got on the scoreboard in the second quarter when Gonzalo Trochez, on a corner kick, passed to Denis Mc-

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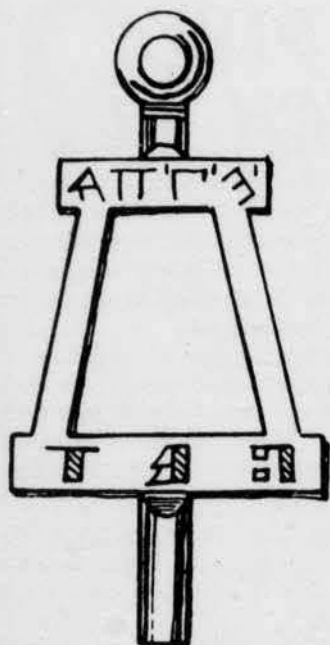
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# Honor Societies Pledge -- Fall '64

## TAU BETA PI



Twice each year Tau Beta Pi, a national honor society whose major goal is . . . "To foster a spirit of liberal culture in the engineering colleges of America," selects men from the upper fifth of the senior class and from the upper eighth of the junior class to become members. The men listed below have been chosen because of the honor they have conferred on their alma mater through . . . "distinguished scholarship and exemplary character as undergraduates":

### From the Senior Class:

Philp Gordon Baker  
Frank Arthur Benham  
Charles Fulton Hunnicutt  
James Stanton Main, Jr.  
Stephen Norman Rudnick  
Donald Charles Sundberg

### From the Junior Class:

William Harold Behn  
Donald Higgins Foley

## CHI EPSILON



Chi Epsilon is the National Civil Engineering Honor Society, whose purpose is to honor outstanding members of the civil engineering department, including graduate students and faculty members as well as undergraduate students. Undergraduates must rank in the upper one-fourth of their civil engineering class and the upper one-third of their class. The men listed below have passed the four primary requirements of scholarship, character, practicality, and sociability:

### Senior Class:

Francis Xavier Watson

### Junior Class:

Anthony Santi Carrara  
John Joseph Lenart  
Ronald Anthony Tata  
John Gary Dyckman  
Joseph John Pastic

### Chapter Honor Member:

Professor  
Lawrence Carlton Neale

## THE SKULL



PHILIP IVAN BACHELDER

RAYMOND CECIL JACQUES

DAVID STANLEY SAWICKI

ROBERT CROSLEY STOW

## PI TAU SIGMA



Pi Tau Sigma, a National Honorary Mechanical Engineering Fraternity, is dedicated to the furthering of the profession of mechanical engineering, as well as developing in mechanical engineering students a feeling of sound engineering ethics.

Members of Pi Tau Sigma are either in the upper quarter of their junior mechanical engineering class or the upper third of their senior mechanical engineering class. Personality and engineering students a feeling of of those selected to the fraternity.

Those selected for pledgeship are listed below:

### Senior Class:

James B. Nystrom  
William R. Jameson  
Richard C. Fortier  
Russell H. Koelsch  
Walter E. Henry

### Junior Class:

Ronald Swers  
Robert A. Lisauskas

## CHEMICAL ENGINEERING HONOR SOCIETY



The object of this society is to bestow honor upon those students and faculty of the Department of Chemical Engineering and Chemistry who have proven themselves worthy of such recognition.

Those pledged this fall are:

### Seniors:

Nicholas J. Barone  
James W. Pierce  
Micheal D. Shapiro

### Juniors:

Brendan Geelan  
Roger Zipfel  
James I. Joubert

## ETA KAPPA NU



Eta Kappa Nu is the National Electrical Engineering Honor Society. Membership is based largely on undergraduate records of Electrical Engineering students. Besides being in the upper third of his Senior Electrical Engineering Class, or the upper fourth of his Junior Electrical Engineering Class, a candidate is judged on his character, activities, leadership, and potential to succeed in his chosen profession.

The purpose of Eta Kappa Nu is to promote interest in the profession by setting a fine example to other students, as well as honoring deserving students.

The following men are pledged.

### Seniors:

John Francis Hendrickson, Jr.  
Peter Edward McCormick  
John Terrence Hart

### Juniors:

William Harold Behn  
Donald Higgins Foley

## PI DELTA EPSILON



Pi Delta Epsilon is the national honorary collegiate journalism fraternity. It is the purpose of the fraternity, to foster mutual welfare of student publications, to develop the truest fraternal spirit among its members, to encourage loyalty to their alma mater, and to reward the journalists working on the student publications for their efforts, services and accomplishments by admission to its membership.

The following men have been chosen to wear "the slug," symbol of pledgeship.

### Seniors:

Philip I. Bachelder; Managing Editor of *Tech News* and Business Manager of *Peddler*.

Eugene R. Dionne, News Editor of *Tech News*.

Richard B. Kennedy, Business Manager of *Tech News*.

Daniel B. Lubert, Managing Editor of *Peddler*.

### From the Faculty:

Carl F. Meyer

Roy A. Seaberg, Jr.

## PI TAU PI SIGMA

The national honorary Signal Corps fraternity chooses its members for scholastic achievement and military proficiency.

These men have been selected:

### Seniors:

William Galebach  
Philip Giantris  
Harry Wood III

### Juniors:

Jay Botop  
Ronald Finn  
Jonathan Pardee  
Peter Sommer  
Shelton Wicker, Jr.

## ALPHA PSI OMEGA

The Dramatic Honor Society pledges the following men for their achievements in the *Masque*:

Edward Alfred Obermeyer  
Bruce Eddy Sturtevant